

|              |     |                  |     |        |           |           |                |                |
|--------------|-----|------------------|-----|--------|-----------|-----------|----------------|----------------|
| RRRRRRRRRRRR |     | UUU              | UUU | NNN    | NNN       | 000000000 | FFFFFFFFFFFFFF | FFFFFFFFFFFFFF |
| RRRRRRRRRRRR |     | UUU              | UUU | NNN    | NNN       | 000000000 | FFFFFFFFFFFFFF | FFFFFFFFFFFFFF |
| RRRRRRRRRRRR |     | UUU              | UUU | NNN    | NNN       | 000000000 | FFFFFFFFFFFFFF | FFFFFFFFFFFFFF |
| RRR          | RRR | UUU              | UUU | NNN    | NNN       | 000       | FFF            | FFF            |
| RRR          | RRR | UUU              | UUU | NNN    | NNN       | 000       | FFF            | FFF            |
| RRR          | RRR | UUU              | UUU | NNN    | NNN       | 000       | FFF            | FFF            |
| RRR          | RRR | UUU              | UUU | NNNNNN | NNN       | 000       | FFF            | FFF            |
| RRR          | RRR | UUU              | UUU | NNNNNN | NNN       | 000       | FFF            | FFF            |
| RRR          | RRR | UUU              | UUU | NNNNNN | NNN       | 000       | FFF            | FFF            |
| RRRRRRRRRRRR |     | UUU              | UUU | NNN    | NNN       | 000       | FFFFFFFFFFFFFF | FFFFFFFFFFFFFF |
| RRRRRRRRRRRR |     | UUU              | UUU | NNN    | NNN       | 000       | FFFFFFFFFFFFFF | FFFFFFFFFFFFFF |
| RRRRRRRRRRRR |     | UUU              | UUU | NNN    | NNN       | 000       | FFFFFFFFFFFFFF | FFFFFFFFFFFFFF |
| RRR          | RRR | UUU              | UUU | NNN    | NNNNNN    | 000       | FFF            | FFF            |
| RRR          | RRR | UUU              | UUU | NNN    | NNNNNN    | 000       | FFF            | FFF            |
| RRR          | RRR | UUU              | UUU | NNN    | NNNNNN    | 000       | FFF            | FFF            |
| RRR          | RRR | UUU              | UUU | NNN    | NNN       | 000       | FFF            | FFF            |
| RRR          | RRR | UUU              | UUU | NNN    | NNN       | 000       | FFF            | FFF            |
| RRR          | RRR | UUU              | UUU | NNN    | NNN       | 000       | FFF            | FFF            |
| RRR          | RRR | UUU              | UUU | NNN    | NNN       | 000       | FFF            | FFF            |
| RRR          | RRR | UUUUUUUUUUUUUUUU | NNN | NNN    | 000000000 | FFF       | FFF            |                |
| RRR          | RRR | UUUUUUUUUUUUUUUU | NNN | NNN    | 000000000 | FFF       | FFF            |                |
| RRR          | RRR | UUUUUUUUUUUUUUUU | NNN | NNN    | 000000000 | FFF       | FFF            |                |

|          |    |          |          |            |    |            |  |
|----------|----|----------|----------|------------|----|------------|--|
| DDDDDDDD |    | SSSSSSSS | PPPPPPPP | HH         | HH | LL         |  |
| DDDDDDDD |    | SSSSSSSS | PPPPPPPP | HH         | HH | LL         |  |
| DD       | DD | SS       | PP       | PP         | HH | LL         |  |
| DD       | DD | SS       | PP       | PP         | HH | LL         |  |
| DD       | DD | SS       | PP       | PP         | HH | LL         |  |
| DD       | DD | SS       | PP       | PP         | HH | LL         |  |
| DD       | DD |          | PPPPPPPP | HHHHHHHHHH | HH | LL         |  |
| DD       | DD | SSSSSS   | PPPPPPPP | HHHHHHHHHH | HH | LL         |  |
| DD       | DD |          | PP       | HH         | HH | LL         |  |
| DD       | DD |          | PP       | HH         | HH | LL         |  |
| DD       | DD |          | PP       | HH         | HH | LL         |  |
| DD       | DD |          | PP       | HH         | HH | LL         |  |
| DD       | DD |          | PP       | HH         | HH | LL         |  |
| DD       | DD |          | PP       | HH         | HH | LL         |  |
| DDDDDDDD |    | SSSSSSSS | PP       | HH         | HH | LLLLLLLLLL |  |
| DDDDDDDD |    | SSSSSSSS | PP       | HH         | HH | LLLLLLLLLL |  |

[illegible]

DSPF  
V04-

• • • • •

:

0000

0000

0000

0004

```
1 0001 0 MODULE DSPHL ( IDENT = 'V04-000'
2 0002 0
3 P 0003 0 XBLISS32[
4 P 0004 0 ADDRESSING_MODE(EXTERNAL=LONG_RELATIVE,NONEXTERNAL=LONG_RELATIVE)
5 0005 0 ]
6 0006 0 ) =
7 0007 0 BEGIN
8 0008 1
9 0009 1 *****
10 0010 1 *
11 0011 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
12 0012 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
13 0013 1 * ALL RIGHTS RESERVED.
14 0014 1 *
15 0015 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
16 0016 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
17 0017 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
18 0018 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
19 0019 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
20 0020 1 * TRANSFERRED.
21 0021 1 *
22 0022 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
23 0023 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
24 0024 1 * CORPORATION.
25 0025 1 *
26 0026 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
27 0027 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
28 0028 1 *
29 0029 1 *
30 0030 1 *****
31 0031 1
32 0032 1
33 0033 1 ++
34 0034 1
35 0035 1 FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS
36 0036 1
37 0037 1 ABSTRACT: Processes the .DISPLAY LEVELS command.
38 0038 1
39 0039 1
40 0040 1 ENVIRONMENT: Transportable
41 0041 1
42 0042 1 AUTHOR: R.W.Friday CREATION DATE: May, 1979
43 0043 1
```



DSPHL  
V04-000

Revision History

D 13  
16-Sep-1984 00:21:50  
14-Sep-1984 13:06:02

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[RUNOFF.SRC]DSPHL.BLI;1 Page 2 (2)

|   |    |      |   |   |
|---|----|------|---|---|
| : | 45 | 0044 | 1 | %SBTTL 'Revision History'                                 |
| : | 46 | 0045 | 1 |   |
| : | 47 | 0046 | 1 | MODIFIED BY:  |
| : | 48 | 0047 | 1 |   |
| : | 49 | 0048 | 1 | 002 KFA00002 Ken Alden 07-Mar-1983                        |
| : | 50 | 0049 | 1 | Global edit of all modules. Updated module names, idents, |
| : | 51 | 0050 | 1 | copyright dates. Changed require files to BLISS library.  |
| : | 52 | 0051 | 1 |   |
| : | 53 | 0052 | 1 | --  |

Module Level Declarations

E 13  
16-Sep-1984 00:21:50  
14-Sep-1984 13:06:02

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[RUNOFF.SRC]DSPHL.BLI;1 Page 3 (3)

```

55 0053 1 %SBTTL 'Module Level Declarations'
56 0054 1
57 0055 1 : TABLE OF CONTENTS:
58 0056 1 :
59 0057 1 :
60 0058 1 :
61 0059 1 : INCLUDE FILES:
62 0060 1 :
63 0061 1 :
64 0062 1 LIBRARY 'NXPORT:XPORT';      ! XPORT Library
65 0063 1 REQUIRE 'REQ:RNODEF';      ! RUNOFF variant definitions
66 0194 1
67 U 0195 1 %IF DSRPLUS %THEN
68 U 0196 1 LIBRARY 'REQ:DPLLIB';      ! DSRPLUS BLISS Library
69 0197 1 %ELSE
70 0198 1 LIBRARY 'REQ:DSRLIB';      ! DSR BLISS Library
71 0199 1 %FI
72 0200 1
73 0201 1 :
74 0202 1 : MACROS:
75 0203 1 :
76 0204 1 :
77 0205 1 :
78 0206 1 : EQUATED SYMBOLS:
79 0207 1 :
80 0208 1 :
81 0209 1 :
82 0210 1 : OWN STORAGE:
83 0211 1 :
84 0212 1 :
85 0213 1 :
86 0214 1 : EXTERNAL REFERENCES:
87 0215 1 :
88 0216 1 EXTERNAL
89 0217 1     IRA : FIXED_STRING,
90 0218 1     HLDSP : VECTOR [MAX_LEVELS];
91 0219 1
92 0220 1 EXTERNAL ROUTINE
93 0221 1     GETDD,
94 0222 1     RSKIPS,
95 0223 1     SKPSEP;

```

## Module Level Declarations

```
0224 1 GLOBAL ROUTINE DSPHL (HANDLER) : NOVALUE = !
0225 1
0226 1 ++
0227 1 FUNCTIONAL DESCRIPTION:
0228 1
0229 1     See the ABSTRACT for a general description.
0230 1
0231 1 FORMAL PARAMETERS:
0232 1
0233 1     HANDLER is a dummy parameter passed for conformance only.
0234 1
0235 1 IMPLICIT INPUTS:      None
0236 1
0237 1 IMPLICIT OUTPUTS:     None
0238 1
0239 1 ROUTINE VALUE:
0240 1 COMPLETION CODES:     None
0241 1
0242 1 SIDE EFFECTS: None
0243 1
0244 1 --
0245 1
0246 2 BEGIN
0247 2 LOCAL
0248 2     DISPLAY_CODE;
0249 2
0250 2     !Skip spaces and tabs before the first display descriptor.
0251 2     RSKIPS (IRA);
0252 2
0253 2     !Attempt to get and process enough display descriptors to define
0254 2     !the display characteristics of all header levels.
0255 2     INCR I FROM 0 TO (MAX_LEVELS - 1) DO
0256 2         BEGIN
0257 2             CASE GETDD (DISPLAY_CODE) FROM -1 TO 1 OF
0258 2                 SET
0259 2                     [-1] :
0260 2                         RETURN;                                !Quit if an error is detected
0261 2
0262 2                     [0] :
0263 2                         0;                                        !Skip over empty positions
0264 2
0265 2                     [+1] :
0266 2                         HLDSP [.I] = .DISPLAY_CODE;            !Save this display code
0267 2
0268 2                     TES;
0269 2
0270 2                     !Skip a separator to position to next descriptor
0271 2                     IF .I NEQ (MAX_LEVELS - 1)
0272 2                     THEN
0273 2                         SKPSEP (IRA);
0274 2
0275 2                     END
0276 2
0277 2     END
0278 2
0279 1 END;                                !End of DSPHL
```



.TITLE DSPHL  
.IDENT \V04-000\

```
.EXTRN  IRA, HLDSP, GETDD
.EXTRN  RSKIPS, SKPSEP
```

.PSECT \$CODES,NOWRT,2

```
.ENTRY DSPHL, Save R2,R3
```

MOVAB IRA, R3

SUBL2 #4, SP

PUSHL R3

CALLS #1, RSKIPS

CLRL I  
RUSHI SP

PUSHL SP  
CALLS #1 GETDD

CALLS #1, GETDD  
CASEL RO. #1, #2

CASEL  
.WORD

45-25,-

35-25'

RET  
NOW

```

MOVL    DISPLAY_CODE, HLDSP[I]
CMPL    1, #5

```

CMPL I #5  
REF 54

BEUL SS  
PUSHI R3

PUSHL R3  
CALLS #1. SKPSEP

CALLS #1, SKP SEP  
AOBLEQ #5, 1, 1\$

RET

: 0224

0251

0255

: 0258

0262

0268

: 0273

: 0275

: 0255

: 0279

; Routine Size: 74 bytes, Routine Base: \$CODE\$ + 0000

[illegible]

## PSECT SUMMARY

| Name     | Bytes | Attributes   |
|----------|-------|--|
| \$CODE\$ | 74    | NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2) |

## Library Statistics

| File                                  | Total | Symbols Loaded | Percent | Pages Mapped | Processing Time |
|---------------------------------------|-------|----------------|---------|--------------|-----------------|
| \$255\$DUA28:[SYSLIB]XPORT.L32:1      | 590   | 0              | 0       | 252          | 00:00.2         |
| \$255\$DUA28:[RUNOFF.SRC]DSRLIB.L32:1 | 1248  | 2              | 0       | 86           | 00:00.2         |

DSPHL  
V04-000

Module Level Declarations

H 13  
16-Sep-1984 00:21:50  
14-Sep-1984 13:06:02

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[RUNOFF.SRC]DSPHL.BLI;1  
Page 6 (4)

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:DSPHL/OBJ=OBJ\$:DSPHL MSRC\$:DSPHL/UPDATE=(ENH\$:DSPHL)

: Size: 74 code + 0 data bytes  
: Run Time: 00:02.8  
: Elapsed Time: 00:10.0  
: Lines/CPU Min: 6021  
: Lexemes/CPU-Min: 8421  
: Memory Used: 27 pages  
: Compilation Complete



0339

DIGITAL EQUIPMENT CORPORATION  
CONFIDENTIAL AND PROPRIETARY